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**REMARKS**

In the present Office Action, claims 1-26 were rejected under 35 U.S.C. §112, first paragraph, as failing to comply with the written description requirement; claims 1-26 were rejected under 35 U.S.C. §102(b) as being anticipated by "AutoCAD and its Applications Advanced" (hereinafter Advanced); and claims 1-26 were rejected under 35 U.S.C. §103(a) as being unpatentable over "AutoCAD Users Guide" (hereinafter Guide).

With this reply, Applicant has canceled claims 1-18 to simplify the outstanding issues and has amended claims 19, 20, 23 and 26 for clarification of Applicant's claimed subject matter. Applicant notes that the rejections of claims 1-18 are now moot, as the claims have been canceled.

With respect to the rejection of claims 19-26 under 35 U.S.C. §35 U.S.C. §112, first paragraph, for allegedly failing to meet the written description requirement, Applicant submits that the claims, as originally submitted and as previously and currently amended, are fully supported by the application, as filed. Applicant notes that MPEP §2163(I)(A) states, "[t]here is a strong presumption that an adequate written description of the claimed invention is present when the application is filed." Applicant further notes that MPEP §2163(I) states, "[t]o satisfy the written description requirement, a patent specification must describe the claimed invention in sufficient detail that one skilled in the art can reasonably conclude that the inventor had possession of the claimed invention."

More specifically, the specification, as filed, clearly describes (in conjunction with the drawings) a roof truss volume detailing system 200 (Fig. 2A) for volume detailing a system of roof trusses that allows for the consideration of the positioning of various structural and non-structural components (e.g., top chords 112A, 112B and 112C and air duct 102: see, for example, Fig. 1B), that comprises: a processor 202; a memory subsystem 204 coupled to the processor 202, the memory subsystem 204 storing information; an input device 210 coupled to the processor 202, the input device 210

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receiving input from a user; and volume detailing code 400 (Figs. 4A-4B) for causing the processor 202 to perform the steps of: providing a representation of a three dimensional roof truss volume 100 (Fig. 1A), wherein the three dimensional roof truss volume 100 models a system of roof trusses; positioning a representation of a three dimensional component (see, for example, Fig. 1A, air ducts 102 and 106 and cat walk 104) at a desired location relative to the three dimensional roof truss volume 100; sectioning the three dimensional roof truss volume at a plurality of points of interest to provide two dimensional roof truss profiles 111, 121 and 131 that include a component profile if the three dimensional component extends through the points of interest (see Figs. 1B-1D); and designing roof trusses based upon the roof truss profiles 111, 121 and 131 (see, for example, page 7, lines 3-16). In sum, Applicant respectfully submits that the patent specification describes the claimed invention (as filed and as amended) in sufficient detail that one skilled in the art can reasonably conclude that the inventor had possession of the claimed invention.

With respect to the Examiner's rejection of claims 19-26 under 35 U.S.C. §§ 102(b) and 103(a), the Examiner appears to be basing the rejections on impermissible hindsight in view of Applicant's own disclosure in stating that "all of the elements of the claimed inventions limitations appear to simply make use of build-in commands and inherent features of AutoCAD program." Applicant submits that the fact that a commercially available piece of software is utilized does not mean that all uses of the commercial software are not novel and obvious.

More specifically, as set forth in Applicant's independent claim 19, Applicant has implemented volume detailing code that readily allows a user of a computer system to volume detail a system of roof trusses. This allows the user of the system to consider the positioning of various structural and non-structural components during roof truss design and avoids later modification of the trusses during installation. The design of the trusses are based upon roof truss profiles that are sectioned from a three dimensional roof truss volume at a plurality of points of interest. In sum, Applicant submits that

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neither Advanced or Guide teach or suggest the subject matter of Applicant's independent claim 19. Further, Applicant submits that claims 20-26 depend upon an allowable claim and are also allowable for at least this reason.

Applicant respectfully submits that this reply is fully responsive to the above-referenced Office Action and that no new matter has been entered with the amendment to the claims.

**CONCLUSION**

For all of the foregoing reasons, Applicant respectfully submits that claims 19-26 are now allowable. If the Examiner has any questions or comments with respect to this reply, the Examiner is invited to contact the undersigned at (616) 949-9610.

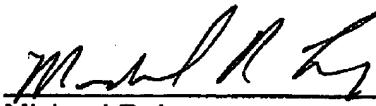
Respectfully submitted,

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09-03-04

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